

DEMIDOV, Aleksandr Valentinovich; MOKHOV, Lev Aleksandrovich;
BERDNIKOV, A.I., red.; MIRONOVA, A.M., tekhn. red.

[Accelerated methods for the determination of injurious gaseous
and volatile substances in the air] Uskorennye metody opredele-
niia v vozdukhie vrednykh gazoobraznykh i paroobraznykh veshchestv.
Moskva, Mdgiz, 1962. 146 p. (MIRA 15:7)
(Air---Analysis)

BYKHOVSKAYA, M.S., red.; PIMENOVA, Z.M., red.; KHALIZOVA, O.D., otv.
red.; BERDNIKOV, A.I., red.; PARAKHINA, N.L., tekhn. red.

[New developments in the field of chemical analysis in sanitary
engineering] Novoe v oblasti sanitarno-khimicheskogo analiza; ra-
boty po promyshlennno-sanitarnoi khimii. Moskva, Medgiz, 1962.
263 p. (MIRA 16:1)

(CHEMISTRY, ANALYTICAL) (SANITARY ENGINEERING)

L 11121-63

ACCESSION NR: AF3005685

8/0186/63/003/003/0390/0392

AUTHOR: Bertukhov, A. I.; Greshko, V. V. (Deceased)

TITLE: Effect of pH on Co^{60} adsorption by peat

SOURCE: Radiokhimiya, v. 5, no. 3, 1963, 390-392

TOPIC TAGS: sorption, adsorption, adsorption rate, adsorption maximum, Co^{60} , $CoCl_2 \cdot 6H_2O$ solution, activity, radioactivity, acid solutions, alkaline solutions, cobalt complexes, hydrochloric acid, ammonia peat, lowland wood peat, radioactive waste water purification, pH

ABSTRACT: A study of the effect of pH on the sorption of Co^{60} by peat from aqueous solutions was prompted by previous findings of the same authors and V. V. Greshko (see Abstracts in this journal, 1962) on the sorption of radio-

$\text{Co} \cdot \text{Cl}_2 \cdot 6\text{H}_2\text{O}$ solution with an activity of 2.0×10^{-4} gpm per 100 ml. carbon

Card 1/1

L 11324-63

ACCESSION NR: AF3001685

dioxide-free hydrochloric acid or ammonium hydroxide solutions were used for adjusting the pH, which was determined potentiometrically with an accuracy of

$$r = \left(\frac{A_0 - A_1}{A_1} \right) 100, \quad (3.)$$

A_0 is the relative activity of the initial solution in cpm, and A_1 is the relative activity of the equilibrium solution in cpm. The results were presented as a plot of r vs pH for various adsorption times (see Fig. 1 of Enclosure). Adsorption increased sharply at pH 4.5 and had a well-defined maximum between pH 5 and 6. The plot also indicates that the adsorption rate is so high that adsorption is practically complete within a half-hour. Adsorption is low (25 to 30%) in strongly acid or alkaline media; this is explained by formation of Co complexes which are adsorbed to a lesser degree. The need of further investigation is mentioned. (orig. art. has: 1 figure and 1 formula.

Card 2/4₂

SHEMYAKIN, F.M.; BERDNIKOV, A.I.; YEGOROV, N.V.

"Manual on the chemical analysis of drugs in drugstores"
by IU.M. Shilov, V.E. Chichiro, I.M. Baikalova. Reviewed by
F.M. Shemiakin, A.I. Berdnikov, N.V. Egorov. Apt. delo
13 no.4:87-88 J1-Ag '64. (MIRA 18:3)

BERDNIKOV, A.I.

Determination of potassium in the soil with the aid of sodium
tetraphenyl borate by a gravimetric method. Izv. vys. ucheb.
zav.; khim. i khim. tekhn. 8 no.1:166-167 '65. (MIRA 18:6)

1. 1-y Moskovskiy meditsinskiy institut imeni Sechenova, kafedra
analiticheskoy khimii.

BERI MIKOV, A.I.; DRESHKO, V.F. [deceased]

Effect of stable cobalt on Co^{60} sorption by peat. Radiokhimiya
7 no.4:494-496 '65. (MIRA 18:8)

SHEMYAKIN, F.M.; BERDNIKOV, A.I.

Qualitative reactions in the identification of methylthiouracil.
Apt. delo 14 no.5:63-65 S-O '65. (MIRA 18:11)

L. I Moskovskiy ordena Lenina meditsinskoy institut imeni
A.M. Sechenova.

SHENYAKIN, P.D.; BERDNIKOV, A.I.

Fluorescence detection of barbituric acid and its derivatives.
Zav. lab. 31 no. 12:1449 '65 (MIRA 19:1)

1. 1-y Moskovskiy meditsinskiy institut.

BELOUS, I. Kh., st. nauchn. sotr.; KAZANSKIY, Yu. P.; VDOVIN, V. V.;
 KLYAROVSKIY, V. M.; KUZNETSOV, V. P.; NIKOLAYEVA, I. V.;
 NOVOZHILOV, V. I.; SENDERZON, E. M.; AKAYEV, M. S.; BABIN,
 A. A.; BERDNIKOV, A. P.; GORYUKHIN, Ye. Ya.; NAGORSKIY, M. P.;
 PIVEN', N. M.; BAKANOV, G. Ye.; GEBLER, I. V.; SMOLYANINOV,
 N. M.; SMOLYANINOVA, S. I.; YUSHIN, V. I.; DZYAKONOVA, N. D.;
 REZAEV, N. M.; KASHTANOV, V. A.; GOLUBEV, A. Y.; SIKOROV,
 A. P.; GARMASH, A. A.; EYKOV, M. S.; BORODIN, L. V.; RYCHKOV,
 L. F.; KUCHIN, M. I.; SHAKHOV, F. N., glav. red.; SHAKOVSKAYA,
 L. I., red.

[West Siberian iron ore basin] Zapadno-Sibirskii zhelezorud-
 nyi bassein. Novosibirsk, Red.-izd. otel Sibirskogo otd-
 elia AN SSSR, 1964. 447 p. (MIRA 17:12)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geo-
 logii i gEOFIZIKI. 2. Institut geologii i geofiziki Sibirskogo
 otdeleniya AN SSSR (for Belous, Kazanskiy, Vdovin, Klyarovskiy,
 Kuznetsov, Nikolayeva, Novozhilov, Senderzon). 3. Institut
 gornogo dela (for Akayev). 4. Novosibirskoye gos. univ. (for
 upravleniye Ministerstva geologii i okhrany ledu SSSR (for
 Babin, Berdnikov, Goryukhin, Nagorskiy, Piven').

(Continued on next card)

BELOUS, N.Kh.---(continued). Card 2.

Tomskiy politekhnicheskii institut (for Smolyaninov, Smolyaninov). 5. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya (for Yushin, Izyakova, Redapov, Zuchtarov, Gal'bert). 6. Institut ekonomiki sel'skogo khozyaystva (for Garmash). 7. Sibirskiy tekhnicheskii institut (for Bykov, Korodin, Kyzilov). 8. Tomskiy inzhenerno-strukturnyy institut (for Kuchin). 9. Nauchno-issledovatel'skiy institut AN SSSR (for Shakhov).

Chlorination of lean oxidized nickel ores by elementary chlorine. A. B. Herdnikov. *Izvestiya Metall.* 1938, No 9, 91-4. The author's lab. expts. showed the feasibility of extn. of Ni from oxidized ores contg. 1% Ni or less. The recovery of 78 to 82% of Ni is claimed possible. The consumption of reducer (coal or charcoal) is equal to 20 to 25% of the weight of the ore. If Co is present in the ore it is converted to chloride together with the Ni, and can be easily sep'd. from the soln. Only 3 or 4% of the Ural Ni ores (with Ni content above 1%) can be ext'd. by pyrometallurgical methods; the chlorination method is, therefore, of great promise in the treatment of the lean Ni ores. B. N. Danilov

ASD 51.6 METALLURGICAL LITERATURE CLASSIFICATION

Composition of the gases from the reductive smelting of nickel. A. E. Berdnikov and M. I. Zakharov. *Tsvetnye Metal.* 13, No. 4, 85-9 (1938); *Chem. Zvest.* 1939, 1, 1031-2; cf. C. A. 33, 2467. — A water-jacketed furnace with 10 to 25 revolutions per min. was tested by use of 30-35 kg. lime and 8-12 kg. gypsum per 100 kg. Ni ore and an air consumption of 24-25 cu. m. per min. The reducing reaction took place throughout the furnace but was especially vigorous about 0.5-1 m. above the tuyères. The waste gas (temp. 90-110°) was usually O-free and contained 17-19% CO₂ and 2-4% CO (at most 8-10%). With normal furnace operation the CO₂/CO ratio is 2. Under the tuyères the temp. was 1300-1400° and the CO content of the gas 40%.
H. B. Wirth

BERDNIKOV, B. A.
USSR/Miscellaneous - Industrial processes

Card 1/1 Pub. 103 - 4/82

Authors : Berdnikov, B. A., and Ol'khovskiy, N. V.

Title : To increase the stability of cutting movements on metal-cutting machines

Periodical : Stan. i instr. 12, 12-15, Dec 1954

Abstract : Various measures for the elimination of torsional vibrations and for increasing the stability of cutting movements on metal cutting machines are introduced. The reasons for the origination of torsional vibrations of machine spindles are explained. Table; graphs; drawing.

Institution :

Submitted :

БЕДНИКОВ, Б. П.

7721. БЕДНИКОВ, Б. П. - Solu- novoyshaya tekhnika. (Odes. zavod s.-kh. mashinostroyeniya Im. Otkrytiya revolyutsii. Lit. Zapis' A. Zorich). Odesa, Obl. izd., 1954. 56 s.s ill.20 sm. 3.000 ekz.
90 K. - (55-3772)p 631.3.002st

SO: Knizhnaya Letopis', Vol. 7, 1955

BERDNIKOV, B. M.

Tekeli Beneficiation Works

"The shortcomings of the Mekhanobr designs for the works"

report presented at the 4th Scientific and Technical Session of the Mekhanobr
Inst, Leningrad, 15-18 July 1958

SC7/127-59-1-24/26

AUTHOR: Berdnikov, B. M., Engineer, Head of the Crushing Section.

TITLE: ~~A Device for the~~ Preservation of the Conveyor Band Against
Cuts (Ustroystvo dlya predokhraneniya ~~transporternykh~~ lent
ot porezov)

PERIODICAL: Gornyy zhurnal 1959, Nr 1, pp 77 (USSR)

ABSTRACT: A device for the preservation of conveyor band against cuts
was installed for test operation in the Tekeli Concentration
Plant. A diagram of this device is presented and described.
There is 1 diagram.

ASSOCIATION: Tekeliyskaya ~~fabrika~~ (The Tekeli Plant).

Card 1/1

BERDNIKOV, B. U.

BERDNIKOV, B. U. (Leningrad, 67, ul. Kurakina, d. 1/3, bol'nitsa im.
Mechnikova, 15-y pavil'on)

Association of tuberculosis and cancer of the stomach. Vest. khir.
75 no.1:63 Ja-F '55. (MLRA 8:4)

1. Iz gosptal'noy khirurgicheskoy kliniki (zav. prof. A.V. Smirnov)
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(STOMACH, neoplasms,
with tuberc.)
(TUBERCULOSIS, GASTROINTESTINAL, complications,
cancer of stomach)

1. Iz oblast'noy kostno-tuberkuleznoy bol'nitsy (gl.vrach - A.N. Izakina) Ryazanskoy oblasti. Adres avtora: Ryazanskaya oblast', Gorlovskiy rayon, selo Klekotki, oblastnaya kostno-tuberkuleznaya bol'nitsa.

BERDNIKOV, B.V.

Appendicitis induced by invagination of the large intestine. Vest. khir. 79 no.7:126 J1 '57. (MIRA 10:10)

1. Iz oblastnoy kostno-tuberkuleznoy bol'nitsy (gl.vrach - A.N. Izakina) Ryazanskoy oblasti. Adres avtora: Ryazanskaya oblast', Gorlovskiy rayon, selo Klekotki, oblastnaya kostno-tuberkuleznaya bol'nitsa.

(APPENDICITIS)

BERDNIKOV, B.V.

Improved tar washer. Spirt.prom. 27 no.4:35-36 '61.
(MIRA 14:6)
(Chistopol'—Liquor industry—Equipment and supplies)

БЕЗОНКОУ, Е.И., ФИЛИНОВ, А.В.

10 years of the antituberculous cooperation of Kaluzh. Prov.
sub. no.1-89-90 '65. (MIR-18011)

1. Kaluzhskiy oblastnoy protivotuberkuleznyy spetsial'nyy
vrach - A.V. Filinov).

BERDNIKOV, I. F.

"Q Fever in the Urals, by B. Kh. Burganskiy, M. B. Kavitanskiy, A. P. Vygovskiy, and I. F. Berdnikov, Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, No 3, Mar 57, pp 41-46

The presence of Q fever was first determined in the Urals in June 1954. In Kirov oblast, cases were treated as bronchopneumonia, malaria, hemorrhagic fever, etc., until diagnosed as Q fever by the complement fixation method. In 1955, a similar outbreak in a Chelyabinsk oblast was at first mistaken for leptospirosis and blamed on polluted water from the Tobol River. Symptoms were similar to those in Kirov Oblast. Magnitogorsk had similar outbreaks in 1954 and 1955.

Investigation showed that the tick population in the forests and on domestic animals was negligible (index for horses not more than 1, and for cattle 1.5). Since in all cases, horses had been used in construction work, their sera were tested with Q-antigen, and the complement fixation reaction was found to be positive. In all cases, the horses had been pastured together with cattle and goats.

Wherever Q- rickettsiae were found in domestic animals, DDT was used for disinfection, rat elimination measures were carried out, and, where advisable, the use of raw milk products from cattle and goats was prohibited. Patients with fever symptoms were kept in isolation from the first day of sickness.

For further epidemiological study and prophylaxis of Q fever, serological observation of animals and suspected patients was continued in the disease, foci, the burrows of rodents, and wherever ticks were to be found. However, "it must be admitted that these investigations are extremely difficult because of the scarcity of Q fever laboratories, Q fever antigen, and even of antiepidemic installations on the oblast level". (U)

Turn in 1951

BERNARD, L.S.

Attachment for obtaining a fixed area of the formation.
Study of the formation of the formation.

BERDNIKOV, L.N.

Effect of residual stresses caused by grinding on the
strength of hard-alloy cutters. Stan. 1 instr. 36 no.10:
27-28 0 '65. (MIRA 18:11)

BERDNIKOV, Leonid Nikolayevich, inzh.; IL'IN, Georgiy Petrovich,
inzh.; SEATERIN, Mikhail Andreyevich, inzh.; SHIFKIN, A.M.,
red.

[Drilling and milling heat-resistant and low-magnetic steels;
verbatim record of a lecture delivered at the Leningrad House
of Scientific and Technical Information in May 1963] Sverlenie
i frezerovanie zharoprotivnykh i nizmomagnitnykh stalo; sten-
ogramma lektsii, pročitannoi v LINTF v mae 1963 g. Leningrad,
1964.. 23 p. (MIRA 17:7)

SECHUKIN, V.R., inzh., BERDNIKOV, M.D., inzh.

Over-all inspection of coal mines of the Stalino Economic Council.
Bezop.truda v prom. 4 no.6:27-28 Je '60. (MIRA 14:3)

1. Upravleniye Stalinskogo okruga Gosgortekhnadzora USSR.
(Stalino Province—Mine inspection)

A new method for the preparation of selenium photoelectric cells. I. S. Preivert and N. B. Herdinkov. *J. Tech. Phys.* (U. S. S. R.) 7, 1331 (1937); *Trans. Acad. Sci. USSR*, II, 1030, of C. A. 31, 2042. A small amount of fused Se is placed on a small metal plate (Fe or Al, or Au on glass) and spread by pressing on it a polished glass plate. In this way, the molten Se is distributed in a very thin layer over the metal plate. Without removing the glass plate, the metal is heat-treated at 200-10°. After removal of the glass plate, the Se layer is covered with Au by cathodic sputtering. A large increase in photoconductivity is obtained. M. G. Miron.

AND ALL METALLURGICAL LITERATURE CLASSIFICATION

SMOLKIN, M.N.; BERDIKOV, N.B.

Spectral density of the energy brightness of hydrogen and deuterium
lamps in the ultraviolet region of the spectrum. Opt. i spektr. 14 no.3:
414-416 Mr '63. (MIRA 10:4)

(Photometry)

(Lamps)

SOV/112-59-1-185

8 (0), 9 (0)

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1,
pp 23-24 (USSR)

AUTHOR: Berdnikov, N. G.

TITLE: Investigation of Drying Conditions for Paper Capacitors

PERIODICAL: Trudy Vses. zaochn. energetich. in-ta, 1957, Nr 7, pp 289-294

ABSTRACT: KBC-MN 1-uf, 1,000-v capacitors were investigated. The following drying conditions were tried: 100°C for 40 hrs, 110°C for 36 hrs, 120°C for 20 hrs, 130°C for 14 hrs, 145°C for 12 hrs, 160°C for 10 hrs, 180°C for 8 hrs, and 200°C for 6 hrs. The best values of time constant of the puncture voltage were obtained at 160-200°C. A rapid service-life test showed that the 100% capacitors dried at 130°C were punctured within 100 hrs, 82% of those dried at 180°C within 600 hrs, and zero per cent of those dried at 200°C within 600 hrs. An investigation of vacuum-drying conditions, subsequent to optimum air-drying, revealed that with a residual pressure of 0.5 mm of mercury column

Card 1/2

SOV/112-59-1-185

Investigation of Drying Conditions for Paper Capacitors

and $115 \pm 5^{\circ}\text{C}$, the optimum drying time is 12 hours. The above investigations permitted cutting the drying and impregnating cycle of the paper capacitors from 70 hrs - 20 min down to 36 hrs - 20 min, i. e., almost to one-half.

Bibliography: 6 items.

V. T. R.

Card 2/2

Berdnikov, N. K.

USSR/ Miscellaneous - Wood packings

Card 1/1 Pub. 1241 - 24/33

Authors : Berdnikov, N. K.

Title : Packing made of pressed wood

Periodical : Vest. mash. 36/1, 63-69, Jan 1956

Abstract : The structure, operation and production of pressed wood packings for use in centrifugal pumps are briefly discussed and described, and their advantages over the leather packings are pointed out. Drawings.

BERDNIKOV, N.K., inzh.

Using natural wood in sealing centrifugal pumps. Vest. mash.
38 no.9:23-24 S '58. (MIRA 11:10)
(Centrifugal pumps) (Sealing Technology))

BERDINOV, N. N., Aspirant

"An Investigation of the Process of Chip Formation During the Rapid Drilling of Steel." Cand Tech Sci, Central Sci.-Res Inst of Technology and Machine Building (TSNITMASH), 6 Dec 54. (Vol. 26 Nov 54)

Survey of Scientific and Technical Dissertations Defended at US & Higher Educational Institutions (11)

SC: Sum. No. 521, 2 Jun 55

BERDNIKOV, N.N.

Efficiency of cooling drills, counterbores and branches. Stan.1
instr. 34 no.4:25-27 Ap '63. (MIRA 16:3)
(Metal-cutting tools--Vibration)

BERDNIKOV, S.F.

New Chelyabinsk electric tractor with mounted attachments for
construction work. Stroi. i dor. mash. 6 no.3:32 Mr '61.

(MIRA 14:4)

(Tractors)

(Building machinery)

ZARZHEVSKIY, Noy Isaakovich; BERDNIKOV, Sergey Fedorovich;
MATVEYEV, S.M., red.

[Chelyabinsk Tractor Plant] Cheliabinskii traktorny zavod. Cheliabinsk, Cheliabinskoe knizhnoe izd-vo, 1962.
118 p. (MIRA 17:9)

USENKO, Y.G., podpolkovnik; ~~RESNIKOV~~ S.I., kapitan-leytenant

Submarine search with helicopters. Mor. sbor. 47 no. 6:60-64 S '64.
(MIRA 18:7)

L 11625-66 LWT(1)/ENT(m)/ENT(t)/ENT(b) LJP(e) JD/JG
ACC NR: AP5025305

SOURCE CODE: UR/0051/85/010/004/0611/0615

AUTHOR: Berdnikov, S. L.; Zelikin, Ya. M.

ORG: none

TITLE: Effect of vanadium pentoxide impurity on the luminescence of zinc oxide
21.44.55

SOURCE: Optika i spektroskopiya, v. 19, no. 4, 1965, 611-615

TOPIC TAGS: zinc compound, vanadium compound, zinc oxide, luminescence spectrum, excitation spectrum, vanadium pentoxide

ABSTRACT: Comparison of the luminescence and excitation spectra of ZnO containing 1 mole % V_2O_5 revealed the following: (1) The short-wave region of the luminescence spectrum is much less extensive than in ZnO samples containing intensifiers such as Al and Cd; (2) After firing at 10^{-5} mm Hg at 900C, the yellow luminescence band disappears from the spectra of pure ZnO and ZnO containing intensifiers, but is retained in the spectrum of ZnO containing V_2O_5 ; (3) The excitation spectrum of ZnO containing V_2O_5 differs sharply from that of pure ZnO and ZnO with intensifiers. It is postulated that these features are due to the fact that the luminescence observed is caused by a compound of zinc oxide and vanadium oxide. The identity of the luminescence and excitation

Card 1/2

UDC: 535.37

L 14625-66

ACC NR: AP5025305

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spectra of ZnO·1 mole % V_2O_5 and zinc orthovanadate and at the same time the substantial difference in the stability of their luminescence relative to roasting in air, vacuum, and hydrogen are consistent with the hypothesis that in ZnO·1 mole % V_2O_5 the luminescence is due to a microphase of zinc orthovanadate, which, being combined with the crystal lattice of zinc oxide, is more stable than zinc orthovanadate alone. This activation of the base by a microphase of the compound formed between the base and the activator occurs in all probability in other phosphors as well. Orig. art. has: 6 figures and 1 table.

SUB CODE: 07, 20 / SUBM DATE: 28Jul64 / ORIG REF: 004

TS
Card 2/2

ANTONYUK, B.N.; DENESYUK, I.P.; KUROV, Yu.P.; VAYNSHTEYN, A.I.; ~~BERDNIKOV, V.A.~~
VEYTSMAN, M.B.; IVANOV, A.A.; IVANOV, A.S.; GAYEVSKIY, B.L.; KOZEL'TSEV,
L.K.; KOZEL'TSEV, L.I.; KIVALDIN, S.G.; MIROSHIN, A.I.; MIL'KOV, G.Ye.;
ZUBKOVSKIY, B.P.; IZYUMOV, B.N.; EDEL'SHTEYN, V.I.; KOCHETKOV, V.P.;
BUBLIKOV, A.V.; DZHANASHIYA, V.A.

Patents. Bum. 1 der. prem. no.1:53-54 Ja-Mr '65.

(MIRA 18:10)

BERDNIKOV, V.A. (Tomsk 7, Kommunisticheskiy prosp. d.14, kv.30)

Bone tissue regeneration under various conditions of blood supply. Ortop. travm. protez. 24 no.7:34-38 J1'63

(MIRA 17:2)

1. Iz kliniki obshchey khirurgii (zav. - prof. V.A. Ivanov)
II Moskovskogo meditsinskogo instituta imeni I.I. Pirogova
(rektor - dotsent M.G. Sirotkina).

SUPER, N.A.; ~~BERDNIKOV~~, V.A.

Differential diagnosis of a closed craniocerebral trauma.
Khirurgiia 39 no.5:80-82 My '63. (MIRA 17:1)

1. Iz kliniki obshchey khirurgii lechebnogo fakul'teta
(zav. - prof. V.A. Ivanov) II Moskovskogo gosudarstvennogo
meditsinskogo instituta imeni N.I. Pirogova i 4-y Gorodskoy
klinicheskoy bol'nitsy (glavnyy vrach - kand. med. nauk
G.I. Papko) Moskvy.

BERDNIKOV, V.A. (Tomsk 35, Kommunisticheskiy prospekt, d.14, kv.30)

Universal bone drill. Ortop., travm. i protez. 26 no.5:74
Apr '68. (MIPA 18:10)

RVACHEV, V.P. [Rvachov, V.P.]; VASHCHENKO, V.I.; BERDNIKOV, V.F.

Determining the energy of optical radiation by means of selective receivers. Ukr.fiz.sbur. 7 no.11:1226-1230 N '62. (MIRA 15:12)

1. Chernovitskiy gosudarstvennyy universitet.
(Actinometer) (Radiation)

ACCESSION NR: AR4036029

8/0299/64/000/006/G006/G006

SOURCE: Referativnyy zhurnal. Biologiya, Abs. 6G32

AUTHOR: Rvachev, V. P.; Berdnikov, V. F.; Vashchenko, V. I.

TITLE: Physical bases for measurements of the energy of photosynthetically active radiation with selective instruments

CITED SOURCE: Fiziol. rasteniy, v. 10, no. 6, 1963, 598-602

TOPIC TAGS: photosynthesis, solar radiation, radiation measurement, solar energy, photometer, photoactinometer, actinometry

TRANSLATION: The goal of this work was the evaluation of the relative sensitivity of existing instruments for the measurement of photosynthetically active radiation and the calculation of the corresponding corrective coefficients to adjust their readings to the readings of an ideal photoactinometer. The readings on the instruments depend essentially on the source of radiation, which is connected with the different distribution of energy in the spectra of the radiation sources. Usually, radiation sensors are rated under a heating lamp with a color temperature of 2850K. In this connection, in this paper, corrective coefficients are given for conversion of the readings of different instruments under

Card 1/2

ACCESSION NR: AR4036029

different radiation sources to the readings obtained under the heating lamp. Corrective coefficients are also given for converting the readings on instruments working under different radiation sources into energy units. Chernovitsky un-t (Chernovtsy University).
V. Korshunova

DATE ACQ: 09Apr64

SUB CODE: GP, L3

ENCL: 00

Card 2/2

BERDNIKOV, V.I., inzhener; KOIKER, L.Ya., inzhener.

Conveyer for finishing and drying chairs. Der.1 lesokh'm, prom.3
no.4:18-19 Ap '54. (MIRA 7:5)

1. Rostovskaya v/D mebel'naya fabrika im. Uritskogo.
(Furniture industry)

BERDNIKOV, V.I.

KOLMER, L.Ya., inzhener; BERDNIKOV, V.I., inzhener.

~~SECRET~~
Lacquer mixing and delivery installation. Der. 1 lesokhiz.prom.
3 no.6:22-23 Js '54. (MLBA 7:7)

1. Bostovskaya n/Domu mebel'naya fabrika im. Uritskogo.
(Lacquer and lacquering)

BERDNIKOV, V.I., inzhener.

Pneumatic press for gluing and veneering. Der.prom. 5 no.5:
20-21 My '56. (MLBA 9:8)

1. Rostovskaya mebel'naya fabrika imeni Uritskogo.
(Gluing) (Veneers and veneering) (Pneumatic machinery)

BERDNIKOV, V.I., inzhener.

Modernizing TSKB-3 face and milling machines. Der.prom. 6 no.1:20
Ja '57. (MLRA 10:2)

1. Rostovskaya-na-Donu mebel'naya fabrika im.Uritskogo.
(Woodworking machinery

BERDNIKOV, V. I.

SHCHETININ V. S. I.; BERDNIKOV, V. I.

Sothing of carbazide resin under pressure. Ser.pron. 6 no.7:19-20
31 1972. (PLRA 10:8)

1. Iostovskaya na-Jonu rebel'naya fabrika imeni Uritskogo.
(Gluing) (Urea)

BERDNILOV, V.I., inzh.

Machine for covering backs and seats of chairs. Der. prom. 8 no.9:23
S '59. (MIRA 12:12)

(Furniture industry)

BERDNIKOV, V.I., inzh.

Tool for cutting toothed tenons. Der.prom. 3 no.12:22
D '59. (MIRA 13:5)
(Woodworking machinery)

BERDNIKOV, V.I.; TATEVSKIY, V.M.

General method for calculating the integrals from spin-functions
in the method of valence schemes. Vest.Mosk. un. Ser.2.Khim. 18
no.4:93 Jl-Ag '63. (EIRA 16:9)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.
(Valence (Theoretical chemistry))
(Integrals)

BERDNIKOV, V.I.; TATEVSKIY, V.M.

Degradation of atomic-binding energy in a molecule into
expressions relating to local molecular fragments. Vest.Mosk.un.
Ser.2:Khim. 18 no.6:14-18 N-D '63. (MIRA 17:4)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

TATEVSKIY, V.M.; BERDNIKOV, V.I.

Approximations in M.F. Mamotenko's formula for the energy of formation of bonds in a molecule adequately described by a single scheme. Vest. Mosk. un. Ser. 2: Khim. 18 no.5:17-21 8-0 '63.
(MIRA 16:11)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

ACCESSION NR: AP4011439

S/0076/64/038/001/0068/0072

AUTHORS: Berdnikov, V.I. (Moscow); Tatevskiy, V.M. (Moscow)

TITLE: General method for calculating spin function integrals in the valence diagram method

SOURCE: Zhurnal fiz. khim, v. 38, no. 1, 1954, 63-72

TOPIC TAGS: spin function, spin function integral, valence diagram method, quantum mechanics, electron rearrangement

ABSTRACT: It is necessary to know the numerical values of integrals of the type

$$\delta_p \int \bar{\psi}_{1n} P \psi_{1n} d\omega_{1n}, \quad (1)$$

where

$$\psi_{1n} = [\alpha(1) \beta(2) - \alpha(2) \beta(1)] [\alpha(3) \beta(4) - \alpha(4) \beta(3)] \dots \times [\alpha(2n-1) \beta(2n) - \alpha(2n) \beta(2n-1)], \quad (2)$$

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ACCESSION NR: AP4011439

for solving some quantum mechanics problems, and particularly for finding the molecule formation energy by valence diagrams with the use of nonorthogonal functions. In this case, P is the electron rearrangement operator; $S_p = +1$ or -1 depending upon whether an even or odd rearrangement corresponds to the operator P ; and $d\omega_{1N} = d\omega(1) d\omega(2) \dots d\omega(2n)$ is the product of the elements of the spin space volume of individual electrons. Since the spin functions α and β are orthonormalized, the consequence is

$$\int \varphi_{2n} \varphi_{2n} d\omega_{2n} = 2^n, \quad (3)$$

where n is the number of brackets in form (2). The present work is an examination of the problems associated with determining the values for the above-mentioned integrals. It was proved that if φ_{2n} is given in form (2), then the electron rearrangements s of r brackets, where both electrons can pass at once from some of the brackets into other ones, can generally be reduced to a rearrangement of another number of electrons in which no more than one electron will rearrange itself from each bracket without changing the magnitude

Card 2/3

ACCESSION NR: AP4011439

of form (1). Orig. art. has: 3 equations.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: PH, CH

NO REF SOV: 000

OTHER: 000

Card 3/3

ACC NR: AP6018006

SOURCE CODE: UR/0513/66/000/010/0117/0118

INVENTOR: Berdnikov, V. I.

ORG: None

TITLE: An injection valve. Class 17, No. 181938

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 117-118

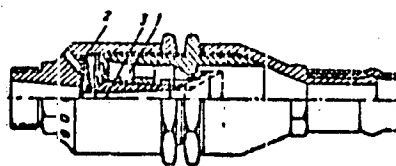
TOPIC TAGS: pneumatic device, valve, conic nozzle

ABSTRACT: This Author's Certificate introduces an injection valve consisting of a housing and a head with a nozzle. The injection chamber is isolated from the atmosphere by an annular check valve coaxial with the nozzle. The nozzle is movable and has a conical back section. This section serves as the check valve for the primary compressed air stream. This is done to suck in atmospheric air during filling of the pneumatic drive with compressed air when connecting the drive into a compressed air network, while simultaneously ensuring the free passage of exhausted air when the pneumatic drive is operating in reverse.

Card 1/2

UDC: 62-851-382.4

ACC NR: AP6018006



1--injection chamber; 2--check
valve; 3--nozzle

SUB CODE: 13/ SUBM DATE: 17Feb62

Card 2/2

TIKHOMIROVA, N.N.; ZAMARAYEV, K.I.; BERDNIKOV, V.M.

Electron paramagnetic resonance studies of copper-ammonia solutions.
Zhur.strukt.khim. 4 no.3:449-450 My-Je '63. (MIRA 16:6)

1. Institut khimicheskoy fiziki AN SSSR.
(Copper compounds--Spectra) (Ammonia)

BERDNIKOV, V.M.; ZAMARAYEV, K.I.; PURMAL', A.P.

Anomalously high rate of exchange of ligands in solutions of copper
(II) ammoniate complexes. Zhur.strukt.khim. 4 no.3:450-452 My-Je
'63. (MIRA 16:6)

1. Institut khimicheskoy fiziki AN SSSR.
(Copper compounds) (Ammonia)
(Electron paramagnetic resonance and relaxation)

BERDNIKOV, V.M.; ZAMARAYEV, K.I.

Nuclear magnetic resonance and electron paramagnetic resonance study of electronic exchange interactions in aqueous solutions of copper amminates. Dokl. AN SSSR 160 no.5:1108-1110 F '65.

(MIRA 18:2)

1. Institut khimicheskoy fiziki AN SSSR. Submitted August 7, 1964.

VOROB'YEVA, T.P.; BFRDNIKOV, V.M.; PURMAL', A.P.

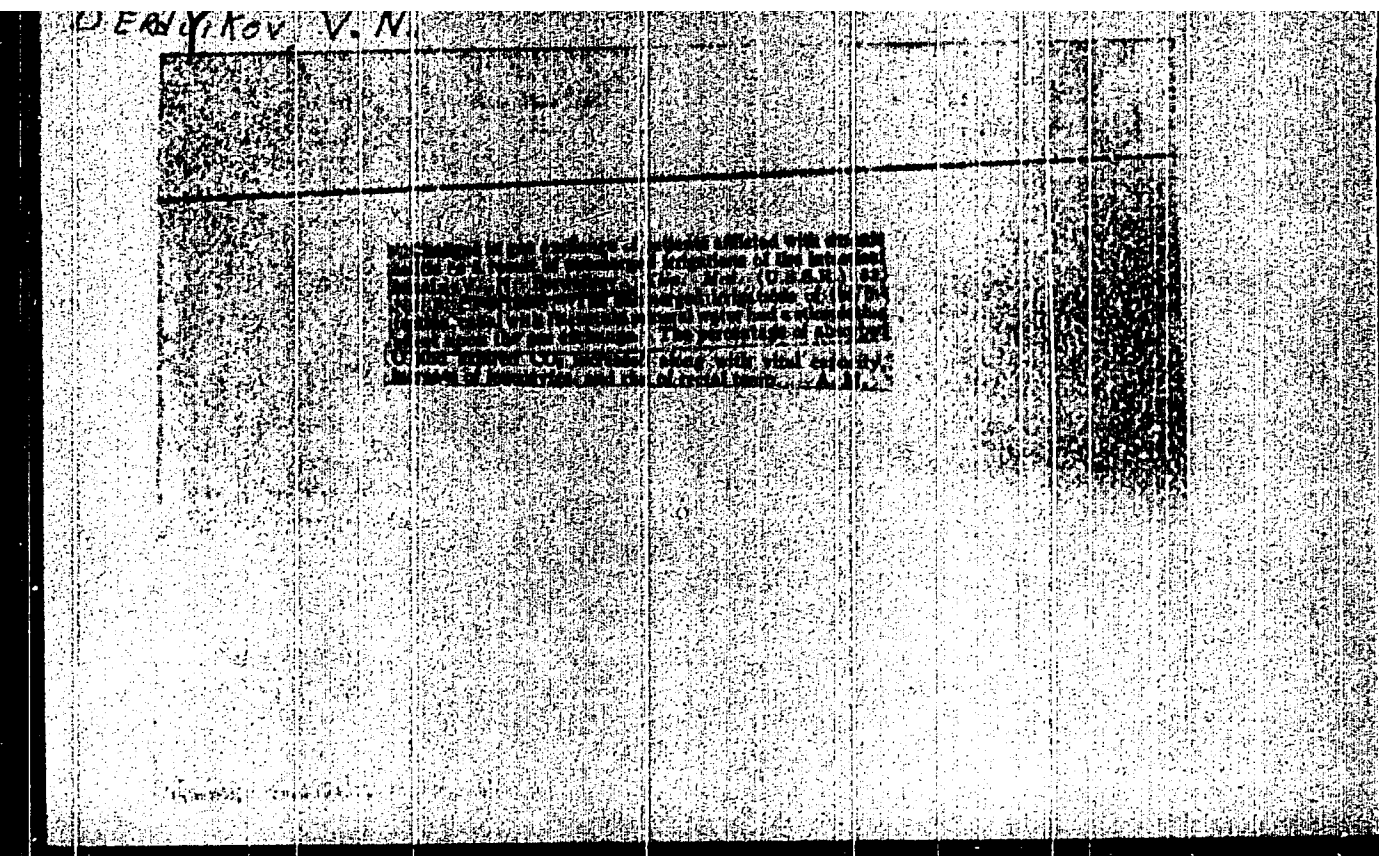
Catalase active systems. Part 7. Zhur. fiz. khim. 38 no.5:
1321-1322 My '64. (MIRA 18:12)

1. Institut khimicheskoy fiziki AN SSSR.

BERDNIKOV, V.M.

Physiological mechanisms of the effect of submerged intestinal lavage
with mineral water Essentuki narsan in various forms of chronic colitis.
Klin. med., Moskva 31 no.5:34-39 May 1953. (CML 25:1)

1. Yessentuki.



BERDNIKOV, V.N.

Effect of submerged intestinal lavage on the blood picture in chronic colitis; preliminary data. Vop.kur., fizioter. i lech.fiz.kul't. no.4: 38-42 O-D '55. (MIRA 12:12)

1. Iz Yessentukskogo tsentral'nogo voyennogo klinicheskogo sanatoriya (nach. - polkovnik meditsinskoy sluzhby S.F. Belovzorov).

(COLITIS, therapy,

submerged colonic irrigation, eff. on blood picture)

(BLOOD,

picture, eff. of submerged colonic irrigation in colitis)

(IRRIGATION,

colon, submerged technic in colitis, eff. on blood picture)

BERDNIKOV, V.N., podpolkovnik meditsinskoy sluzhby, kandidat meditsinskikh
nauch

Collar electrode for franklinisation. Voen.-med. zhur. no.5:80-81
My '56. (MLRA 9:9)
(ELECTROTHERAPEUTICS)

BERDNIKOV, V.N., kandidat meditsinskikh nauk (Yessentuki)

Changes in the cardiovascular system under the influence of
underwater intestinal lavage in patients with chronic colitis.
Vrach.delo no.2:203 F '57. (MIRA 10:6)
(COLITIS) (CARDIOVASCULAR SYSTEM)

BERDIKOV, V.N., podpolkovnik med. sluzhby

Shower massage. Voen.-med. zhur no.5:62-64 My '57 (MIRA 12:7)

(MASSAGE,

douche-massage appar. (Bus))

BERDNIKOV, V.N.

BERDNIKOV, V.N., kand.med.nauk; (RINNV, A.Ye.

Conference on theory and practice for physicians of a sanatorium.
Vop.kur., fizioter. i lech.fiz.kul't. 22 no.3:94-95 My-Je '57.
(HEALTH RESORTS, WATERING PLACES, ETC.) (MIRA 11:1)

BERDNIKOV, V.N.

Effect of underwater intestinal lavage on chronic colitis and the state of the nervous system in patients. Vop.kur.fizioter. i lech. fiz.kul't. 23 no.2:127-130 Mr-Apr '58. (MIRA 11:6)

1. Iz Yessentukskogo tsentral'nogo klinicheskogo voyennogo sanatoriya (nach. S.F.Belovzorov)
(YESSENTUKI--HYDROTHERAPY) (COLITIS)

HERDNIKOV, V.N., GRINEV, A.Ye.

Conference on theory and practice in Feodosiya. Vop.kur.fizioter.
i lech. fiz. kul't. 23 no.6:567-568 N-D '58 (MIRA 11:12)
(ALIMENTARY CANAL--DISEASES)

BERDNIKOV, V.N.; GRINEV, A.Ye.

Feodosiya is a health resort for treating gastrointestinal
diseases. Vop. kur., fizioter. i lech. fiz. kul't. 25
no. 6:566-568 N-D '60. (MIRA 14:2)
(FEDODSIYA--HEALTH RESORTS, WATERING PLACES, ETC.)
(DIGESTIVE ORGANS--DISEASES)

BERDNIKOV, Viktor Nikolayevich[Berdnikov, V.M.], kand.med.nauk;
GRINEV, Aleksandr Yevgen'yevich[Hrin'ov, O.IE.], lekar';
KARYI, V.G.[Karyi, V.H., translator]; CHERNISHOV, V.P.,
red.; BYKOV, N.M., tekhn. red.

[The health resort of Feodosiya]Kurort Feodosiia. Kyriv,
Dersh. vyd-vo med. lit-ry URSR, 1962. 98 p. (MIRA 16:3)
(FEODOSIYA--SEASIDE RESORTS)

BERDNIKOV, Viktor Nikolayevich, kand. med.nauk [deceased];
GUSEV, E.G., red.

[The health-resort treatment of disease of the digestive
system] Vrekurortnoe lechenie zabolevaniy zheludka i
pyelostoma. Moskva, Meditsina, 1965. 141 p.
(11)

BERDNIKOV, V.N.

Mitten-electrode and its use. Vop. kur., fizioter. i lech.
fiz. kul't 29 no.1:76-77 '64. (MIRA 17:9)

1. Feodosiyskiy sanatoriy Ministerstva oborony.

44095

S/185/62/007/011/012/019
D234/D308

AUTHORS: Rvachov, V.P., Vashchenko, V.I. and Berdnikov, V.P.

TITLE: Determination of the energy of optical radiation by means of selective receptors

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 11, 1962, 1226-1229

TEXT: If the spectral sensitivity of a selective receiver is $S(\lambda)$ and the spectral distribution of the incident radiation is $\varepsilon(\lambda)$, the indications of the receiver will be

$$n = \alpha_1 \int_0^{\infty} S(\lambda) \varepsilon(\lambda) d\lambda$$

The indication of a nonselective ideal photoactinometer are

$$n_{ph} = \alpha \int_{380}^{710} \varepsilon(\lambda) d\lambda.$$

Card 1/2

Determination of the energy ...

S/185/62/007/011/012/019
D234/D308

The purpose of the paper was to reduce the indications of various receivers to those of an ideal photoactinometer by means of n/n_{ph} . Numerical values of the integrals were found graphically using spectral curves of various receivers and sources of radiation (those for incandescence lamps were calculated from black body radiation with corrections taken from a paper by Forsythe and Adams). A table of energy equivalents of a lux for various sources and of sensitivities of receivers (referred to that of an ideal photoactinometer) to various sources is added. There are 2 tables.

ASSOCIATION: Chernivetsky derzhuniversytet (Chernovtsy State University)

SUBMITTED: March 24, 1962

Card 2/2

CHAY V, A. M.; HENNING V. V. P.

Absorption of immune antibodies on the particles of a suspension.
Zhur. mikrobiol., epid. i imun. 41 12:23-29 1964.

(HHA 18:3)

BYDNIW, V. V.

Director, Department of the President of the
of the Ministry of Internal Affairs of the USSR
Gen. Sec. of the Ministry of Internal Affairs of the USSR
Gen. Sec. of the USSR, Moscow, USSR. (PL, No. 11, No. 11)

SO: Sec. V. V. G. to Sec. 55-Survey of State Affairs and Records of the
and the Department of USSR Higher Educational Institutions (10)

BERDMANOV, V.V.

Determining the wear-life of piston-type pneumatic drives used on
machine tools. Stan. inst. 26 no.11:1-7 N '55. (MLRA 9:2)
(Machine tools---Pneumatic driving)

HERONIKOV, V.V.

Investigating the dynamics of piston-type pneumatic engines.
Trudy Il'm.p.e teor.mash. 15 no.60:52-72 J1-Ag '56. (MLRA 9:11)
(Pneumatic machinery)

KOREPANOV, A.; BERDNIKOV, V.V.; KADOSHNIKOV, B.A.; KAZANTSEV, D.P., red.;
VORONTSCHA, Z.Z., tekhn. red.

[Our experience in fattening young cattle] Nash opyt nagula modod-
nyaka krupnogo rogatogo skota. Izhevsk, Udmurtskoe knizhnoe izd-
vo, 1960. 16 p. (MIRA 14:12)

1. Zaveduyushchiy Molochno-tovarnoy fermy kolkhoza "Sassvet" Igrishko-
go rayona (for Korepanov).
(Cattle--Feeding and feeds)

KARGIN, Yu.M.; BERDNIKOV, Ya.A.

Use of a stationary mercury electrode for microanalytical
determinations. Zav.lab. 26 no.9:1078-1079 '60. (MIRA 13:9)

1. Kazanskiy gosudarstvennyy universitet.
(Electrodes, Mercury) (Microchemistry)

ARPUZOV, B.A.; BERDNIKOV, Ye.A.

Polarographic behavior of some diphenylphosphoryl hydrazones. Izv.
AN SSSR Otd.khim.nauk no.1:165-168 Ja '62. (MIRA 15:1)

1. Kazanskiy gosudarstvennyy universitet im. V.I.Ul'yanova-Lenina.
(Hydrazones)

BERDNIKOVA, A. V., Physician

"Hygienic Requirements for the Rational Regulation of Feeding." Sub 25
Jun 51, Second Moscow State Medical Inst imeni I. V. Stalin.

Dissertations presented for science and engineering degrees in Moscow
during 1951.

SO: Sum. No. 480, 9 May 55.

IVANOV, P.K., prof., doktor sel'skokhozyaystvennykh nauk; BHUNIKOVA, A.Y.

Increase soil fertility in the Volga-Akhituba Flood Plain.
Zemledelie 25 no.1:59-65 Ja '63. (MIRA 16:4)

1. Astrakhanskaya sel'skokhozyaystvennaya opytnaya stantsiya.
(Volga-Akhituba Flood Plain--Soil fertility)

L 2123-65

ENT(m)/EPF(n)-2/ENP(q)/ENP(b)

Pu-4

JD/WN/JG

ACCESSION NR: A24042107

8/0244/64/023/004/0017/0020

AUTHOR: Berdnikova, A. V.

15

TITLE: Uranium content in the surrounding medium and human elimination

SOURCE: ²¹Voprosy* pitaniya, v. 23, no. 4, 1964, 17-20

TOPIC TAGS: uranium, uranium intake, uranium elimination, uranium absorption, uranium content

ABSTRACT: This is a study on the migration of uranium from soil and water into plant, food products and the human organism, as well as of any consistencies of its accumulation in the individual links of the biologic chain. The study was conducted in 2 representative rural settlements, selected because of their different uranium content in water and soil which was 23 and 6 times respectively higher in the test location, on 600 specimens of soil, water, plants, food, human urine and feces, by means of fluorometry. Results are tabulated. A direct relationship was observed between the contents in water and soil and in the food products. Uranium accumulated evenly on the surface as well as in the interior of plants where its total was higher than in meat and dairy products. Uranium entering the

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L 2123-65

ACCESSION NR: AP4042107

body is apparently accumulated; total absorption was $3.045 \cdot 10^{-4}$ as against $4.3 \cdot 10^{-5}$ elimination in g/24 hours in the test location. The main source of uranium entering the body was water; food stuffs supplied only 1-5% of the daily total intake. Elimination was mainly in the feces. Uranium found in the urine was considered to indicate its possible absorption and penetration into the blood circulation. Uranium contents were found constant over the seasons and years in the objects under study. Orig. art. has: 2 tables.

ASSOCIATION: None

SUBMITTED: 21 Jun 63

STATS ACC: 00

ENCL: 00

SUB CODE: SLS

NO REF SOV: 004

OTHER: 001

Card 2/2

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200030005-1

SHUYKIN, N. I.; NOVIKOV, S. S.; BERDNIKVA, I. G.

"Contact Catalytic Conversion of Alkanes and Cyclanes at Elevated Temperatures and Hydrogen Pressures," Doklady Akad Nauk USSR 89, (6) 1029-32 (1953).

Evaluation B-85325, 14 Jun 55

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200030005-1"

BERDNIKOVA, K., otv. za vypusk; GOLUBTSOVA, P., red.; BELEN'KAYA, I.,
tekhn. red.

[The national economy of White Russia; statistical abstract]
Narodnoe khoziaistvo BSSR; statisticheski sbornik. Minsk,
Gos.izd-vo BSSR. Red.sotsial'no-ekon. lit-ry, 1963. 510 p.
(MIRA 16:3)

1. White Russia. Statisticheskoye upravleniye.
(White Russia—Statistics)

BERDNIKOVA, K.G.; ASLANYAN, K.A.

Determination of the diffusion coefficient of poly-*p*-chlorostyrene
fractions in chloroform. Vysokom. soed. 3 no.2:228-231 P '61.
(MIRA 14:5)

1. Leningradskiy gosudarstvennyy universitet.
(Styrene) (Diffusion)

BERENIKOVA, K.G.; TARASOVA, G.V.; SKAZKA, V.S.; NIKITIN, N.A.; DYUZHEV, G.V.

Hydrodynamic properties of some polymethacrylates. Vysokom. speed.
6 no.11:2057-2062 N '64 (MIRA 18:2)

1. Fizicheskiy Institut Leningradskogo gosudarstvennogo uni-
versiteta.

BERDNIKOVA, K.G.; DOROFYEVA, N.P.

Study of poly(vinyl acetate) solutions by the diffusion method.
Vysokom. soed, 3 no. 2: 232-236 P '61. (MIRA 14:5)

1. Leningradskiy gosudarstvennyy universitet.
(Vinyl acetate)